

WARM-UP! Put your work in your notebook :)

Write each percent as a fraction in lowest terms:

1. 30%

2. 12%

3. 45%

Find the mean, median, and mode of the following data:

4. The number of text messages sent in a day by 8th graders:

65, 73, 51, 22, 14, 56, 10, 3, 17, 18, 22, 33, 17, 16

*Rates
&
Unit Rates*

Let's correct the homework . . .

QUESTIONS?

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm



Page 6 #9-17

$$\begin{array}{r} 21 \\ +13 \\ \hline 34 \end{array}$$



Time for
partner work!

Homework

#4 Page 10 #5 - 8 & #14

WARM-UP

Name the units in each rate. Then find the unit rate.

1. 25 miles in 6 hours

2. \$3.25 for 4 avocados

$$\frac{25}{6} = \boxed{4.1\bar{6}} \text{ mph} \quad \frac{3.25}{4} = \$0.81/\text{avoc.}$$

3. \$5.00 for 4 candles

4. 20 WW Slips for 3 students

$$\frac{\$5.00}{4} = \$1.25/\text{candle} \quad \frac{20}{3} = \underline{6.7} \text{ WW/student}$$

VOCAB: Rate and Unit Rate- Put the definitions of these words in your math dictionary.

$$25 \div 6 \quad \begin{array}{r} 4 \\ 6 \overline{) 25} \\ \underline{24} \\ 1 \end{array}$$

1.5 lb \$3.00

→ lbs/\$1.

→ $\boxed{\frac{\$}{lb}}$

$\frac{\$0.27531}{\$0.27}$
orange

3hr 15min

Kicks per min.

$$20,717 \div 195$$

106.24 k/m

Warm-Up

Find the unit rate.

1) *120 mi in 4 hours*

2) *\$6.12 for 5 lbs*

Let's correct the homework . . .

QUESTIONS?

Examples of unit rates: $\$7/\text{h}$, $50 \text{ mi}/\text{h}$

What if I want to convert rates to different units?

Solve the following with your partner.

If I make $\$7/\text{h}$, how much will I make in a ^{day} week?

$$7 \cdot 8 = \$56/\text{day}$$

If I drive $50 \text{ mi}/\text{h}$, how many miles am I driving in one minute?

$$50 \div 60 = .83 \text{ mi}/\text{min}$$

What happens????

*Discuss with your partner how to
handle converting rates.*

(HINT: What did you have to do for each of the problems you just solved?)

Notes on Rates

When changing from a BIG unit to a SMALL unit: DIVIDE

Example: $15 \text{ m/h} = \underline{\hspace{2cm}} \text{ m/min}$

$$15 \div 60 =$$

When changing from a SMALL unit to a BIG unit: MULTIPLY

Example: $\$2.50/\text{oz} = \$\underline{40} / \text{lb}$

$$16 \times \$2.50 = \$40$$

Complete the following:

$$2 \text{ mi/min} = \underline{\hspace{2cm}} \text{ m/h}$$

$$\cdot 60 = 120$$

$$16 \text{ in/year} = \underline{\hspace{2cm}} \text{ in/month}$$

$$16 \div 12$$

Homework

#5 Page 11 #9 - 12 & Page 14 #3 - 7